

PTO/SB/08A (08-03)

Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 12

Complete if Known

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CM	A1	US-3,817,837	06-18-1974	Tanenholtz et al.	
	A2	US-3,850,752	11-26-1974	Schuurs et al.	
	A3	US-3,939,350	02-17-1976	Kronick et al.	
	A4	US-3,996,345	12-01-1976	Ullman et al.	
	A5	US-4,275,149	06-23-1981	Litman et al.	
	A6	US-4,277,437	07-07-1981	Maggio	
	A7	US-4,366,241	12-28-1982	Tom et al.	
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	A9	US-4,683,202	07-28-1987	Mullis	
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	A11	US-4,965,188	10-23-1990	Mullis et al.	
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	A35	US 2003-0009019 A1	01-09-2003	Cech et al.	
	A36	US 2003-0032075 A1	02-13-2003	Cech et al.	
	A37	US 2003-0044953 A1	03-06-2003	Cech et al.	
	A38	US 2003-0059787 A1	03-27-2003	Cech et al.	
	A39	US 2003-0096344 A1	05-22-2003	Cech et al.	
CM	A40	US 2003-0100093 A1	05-29-2003	Cech et al.	
CM	A41	US Application No. 69/432,503		Cech et al.	

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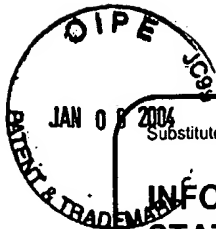
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Date
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4-13-04

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/766,253
		Filing Date	January 19, 2001
		First Named Inventor	Thomas Cech
		Art Unit	1634
		Examiner Name	Carla J. Myers
Sheet 2 of 12	Attorney Docket Number	015389-002921US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
CJ	A42	U.S. Application No. 09/721,477		Cech et al.	
CJ	A43	U.S. Application No. 09/721,508		Cech et al.	
CJ	A44	U.S. Application No. 90/974,584		Cech et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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	B9	PCT	WO 96/19580	A2	06-27-1996			<input type="checkbox"/>
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	B21	PCT	WO 98/59040	A2	12-30-1998			<input type="checkbox"/>
	B22	PCT	WO 99/01560	A1	01-14-1999			<input type="checkbox"/>
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	B24	PCT	WO 99/38964	A2	08-05-1999			<input type="checkbox"/>
	B25	PCT	WO 00/46355	A2	08-10-2000			<input type="checkbox"/>

Examiner Signature	<i>Chup</i>	Date Considered	4-13-04
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Sheet 3 of 12**Complete if Known**

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Cm	C1	ADAMSON, D. et al. "Significant Telomere Shortening in Childhood Leukemia", Cancer Genet. Cytogenet, 1992; pp. 204-206, Vol. 61	
	C2	ANDERSON and YOUNG, "Quantitative Filter Hybridization" in Nucleic Acid Hybridization, 1985, pp. 73-111	
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	C4	AUTEXIER et al., "Reconstitution of human telomerase activity and identification of a minimal functional region of the human telomerase RNA," EMBO J, 1996, pp. 5928-5935, Vol. 15	
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	C7	AVILION, A., "Characterization and expression of human telomerase," Dissertation Abstracts International, 1996, pp. 5930-B, Vol. 56, No. 11	
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	C9	BERGER and KIMMEL (Eds), "Guide to Molecular Cloning Techniques", Methods in Enzymology, 1987, vol. 152, Academic Press, San Diego CA	
	C10	BIESSMAN et al., "Addition of Telomere-Associated HeT DNA Sequences "Heals" Broken Chromosome Ends in Drosophila," Cell, 1990, pp. 663, Vol. 61	
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	C15	BRADFORD, "A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding," Anal. Biochem., 1976, pp. 248, Vol. 72	
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Examiner Signature	<i>Myers</i>	Date Considered	4-13-04
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Submission for Form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 12

Complete if Known

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

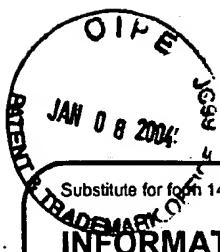
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CM	C18	CARUTHERS et al., "New chemical methods for synthesizing polynucleotides," Nucleic Acids Res. Symp. Ser., 1980, pp. 215-223	
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✓	C33	COUNTER et al; "Telomerase activity in human ovarian carcinoma"; Proc. Natl. Acad. Sci USA; April 1994; Vol. 91; pp. 2900-2904	
✓	C34	CREIGHTON, T. Proteins, Structures and Molecular Principles, 1983, WH Freeman and Co, New York, NY	

Examiner Signature	Carla Myers	Date Considered	4-13-04
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Sheet 5 of 12

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Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
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✓	C36	DIEFFENBACH and DVEKSLER, <i>PCR Primer, a Laboratory Manual</i> , 1995, Cold Spring Harbor Press, Plainview NY	
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✓	C39	FENG et al., "The RNA Component of Human Telomerase," <i>Science</i> , 1995, pp. 1236-1241, Vol. 269	
✓	C40	FLAVELL, R. & MATHIAS, R. "Prospects for transforming monocot crop plants", <i>Nature</i> , 12 Jan. 1984, pp. 108-109, Vol. 307.	
✓	C41	FRESHNEY, <i>Culture of Animal Cells, A Manual Basic Technique</i> , 1983, Alan R. Liss, Inc. New York.	
✓	C42	Genbank Accession No. A46242 (NATARAJAN et al.) 1992	
✓	C43	Genbank Accession No. AA299878 (ADAMS et al.) April 18, 1997	
✓	C44	Genbank Accession No. AA311750 (ADAMS et al.) April 19, 1997	
✓	C45	Genbank Accession No. L38903 (ZAHNER et al.) July 26, 1996	
✓	C46	Genbank Accession No. Q06163 (DU, Z.) 1995	
✓	C47	Genbank Accession No. S39696 (GLASER et al.) 1993	
✓	C48	Genbank Accession No. S53396, (DU, Z.) 1995	
✓	C49	GenBank Accession No. U95964, (Linger et al.) May 5, 1997	
✓	C50	GenBank, EST Database, Accession No. W70315, (HILLIER, et al.) October 17, 1996	
✓	C51	Genome Issue of <i>Science</i> , 1994, pp. 1981-2144, Vol.265.	

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Sheet 6 of 12

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Ch	C52	GILLEY, D. et al., "Altering specific telomerase RNA template residues affects active site function," <i>Genes Develop.</i> , 1995, pp. 2214-2226, Vol. 9, Cold Spring Harbor Laboratory Press.	
✓	C53	GLASER, P. et al. "Bacillus subtilis genome project: cloning and sequencing of the 97 kb region from 325° to 333°" <i>Molecular Microbiology</i> , 1993, pp. 371-384, Vol. 10, No. 2.	
✓	C54	GOODMAN, R. et al. "Gene Transfer in Crop Improvement", <i>Science</i> , 3 April 1987, pp. 48-54, Vol. 236.	
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✓	C56	GOTTSCHLING, D. and ZAKIAN, V. "Telomere proteins: specific recognition and protection of the natural termini of Oxytricha macronuclear DNA," <i>Cell</i> , 1986, pp. 195-205, Vol. 47	
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✓	C58	GREENWOOD, S. et al., "Phylogenetic relationships within the class oligohymenophorea, phylum ciliophora, inferred from the complete small subunit rRNA gene sequences of Colpidium campylum, Glaucoma chattoni, and Opisthonecta henneguyi," <i>J. Mol. Evol.</i> , 1991, pp. 163-174, Vol. 33	
✓	C59	GREIDER, C. "Telomerase is processive," <i>Mol. Cell. Biol.</i> , Sept. 1991, p. 4572-4580, Vol. 11	
✓	C60	GREIDER, C. "Telomere Length Regulation," <i>Ann. Rev. Biochem.</i> , 1996, pp. 337-365, Vol. 65, Cold Springs Harbor Laboratory Press, New York.	
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✓	C62	GREIDER, C. and BLACKBURN, E. "A telomeric sequence in the RNA of Tetrahymena telomerase required for telomere repeat synthesis," <i>Nature</i> , Jan. 1989, pp. 331-337, Vol. 337	
✓	C63	GREIDER, C. and BLACKBURN, E. "Identification of a specific telomere terminal transferase activity in Tetrahymena extracts," <i>Cell</i> , Dec. 1985, 405-413, Vol. 43	
✓	C64	HAMPTON et al. <i>Serological Methods a Laboratory Manual</i> , 1990, APS Press, St Paul MN	
✓	C65	HARLEY, C. "Telomere loss: Mitotic clock or genetic time bomb?" <i>Mutation Research</i> ; 1991; pp. 271-282, Vol. 256, Elsevier Science Publishers.	
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Examiner
Signature

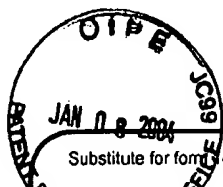
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Sheet 7 of 12

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Am ✓	C68	HARRINGTON et al., "A Mammalian Telomerase-Associated Protein," Science, Feb. 1997, pp. 973-977, Vol. 275	
✓	C69	HARRINGTON et al., "Human telomerase contains evolutionarily conserved catalytic and structural subunits," Genes Dev., 1997, pp. 3109-3115, Vol. 11.	
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✓	C71	HASTIE, N. et al. "Telomere reduction in human colorectal carcinoma and with ageing", Nature, 30 August 1990, pp. 866-868, Vol. 346.	
✓	C72	HENDERSON, C. Cancer genetics gene regulates telomerase resulting in death of cancer cells; Gene Therapy Weekly; 11 September 1995, Abstract Only.	
✓	C73	HENDERSON, E. and BLACKBURN, E. "An overhanging 3' terminus is a conserved feature of telomeres," Mol. Cell. Biol., Jan. 1989, p. 345-348, Vol. 9, No. 1.	
✓	C74	HIYAMA, E. et al. "Correlating telomerase activity levels with human neuroblastoma outcomes"; Nature Medicine; 3 March 1995; pp. 249-255, Vol. 1, No. 3.	
✓	C75	HOLTZMANN, K. et al. "Telomeric Associations and Loss of Telomeric DNA Repeats in Renal Tumors", Genes, Chromosomes & Cancer, 1993, pp. 178-181, Vol. 6.	
✓	C76	HORN, T. et al., "Synthesis of oligonucleotides on cellulose. Part II: design and synthetic strategy to the synthesis of 22 oligodeoxynucleotides coding for gastric inhibitory polypeptide (GIP)," Nucleic Acids Res. Symp. Ser. No. 7, 1980, pp. 225-232	
✓	C77	HUDSON et al., "An STS-based map of the human genome," Science, 1995, p. 1945, Vol. 270	
✓	C78	HUSE, W. et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda," Science, 1989, p. 1275-1281, Vol. 246	
✓	C79	JÄHNE, A. et al. "Genetic Engineering of Cereal Crop Plants: A Review", Euphytica, 1995, pp. 35-44, Vol. 85, Kluwer Academic Publishers, Netherlands.	
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✓	C81	JOLLIFFE, L.K. "Humanized antibodies: enhancing therapeutic utility through antibody engineering", Int. Rev. Immunol., 1993, pp. 241-250, Vol. 10	
✓	C82	KILIAN, A. et al., "Isolation of a candidate human telomerase catalytic subunit gene, which reveals complex splicing patterns in different cell types," Hum. Mol. Genet., 1997, pp. 2011-2019, Vol. 6, No. 12.	
✓	C83	KIM, N. et al. "Specific Association of Human Telomerase Activity with Immortal Cells and Cancer", Science, 23 December 1994, pp. 2011-2014, Vol. 266.	

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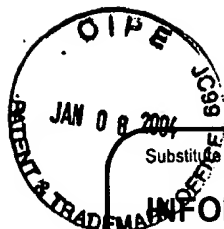
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 8 of 12

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Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

NON PATENT LITERATURE DOCUMENTS

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CK	C84	KIPLING and COOKE, "Hypervariable ultra-long telomeres in mice," <i>Nature</i> , 1990, p. 400, Vol. 347	
✓	C85	KLINGELHUTZ, A. et al. "Restoration of Telomeres in Human Papillomavirus- Immortalized Human Anogenital Epithelial Cells"; <i>Molecular and Cellular Biology</i> ; Feb. 1994, pp. 961-969, Vol. 14, No. 2.	
✓	C86	KLOBUTCHER et al., "All gene-sized DNA molecules in four species of hypotrichs have the same terminal sequence and an unusual 3' terminus," <i>Proc. Natl. Acad. Sci.</i> , 1981, p. 3015, Vol. 78	
✓	C87	KOEHLER and MILSTEIN, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> , 1975, pp. 495-497, Vol. 256.	
✓	C88	KOZBOR, D. & RODER, J. "The production of monoclonal antibodies from human lymphocytes," <i>Immunol. Today</i> , 1983, p. 72, Vol. 4.	
✓	C89	LAMOND, A. and SPROAT, B. "Isolation and Characterization of Ribonucleoprotein Complexes", <i>RNA Processing Vol. 1 A Practical Approach</i> , 1994, pp. 103-140, Eds. Higgins & Hames, Oxford University Press, New York.	
✓	C90	LAMOND, A. et al. "Probing the structure and function of U2 snRNP with antisense oligonucleotides made of 2'-OMe RNA," <i>Cell</i> , July 1989, pp. 383-390, Vol. 58.	
✓	C91	LENDVAY, T. et al., "Senescence mutants of <i>Saccharomyces cerevisiae</i> with a defect in telomere replication identify three additional EST genes," <i>Genetics</i> , Dec. 1996, pp. 1399-1412, Vol. 144	
✓	C92	LEWIS, A. & CROWE, J.S. "Generation of humanized monoclonal antibodies by 'best fit' framework selection and recombinant polymerase chain reaction", <i>Year Immunol.</i> , 1993, pp. 110-118, Vol. 7	
✓	C93	LINGNER et al., "Telomerase RNAs of different ciliates have a common secondary structure and a permuted template," <i>Genes Develop.</i> , 1994, p. 1984, Vol. 8	
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✓	C95	LINGNER et al., "Reverse transcriptase motifs in the catalytic subunit of telomerase," <i>Science</i> , April 25, 1997; pp. 561-567, Vol. 276.	
✓	C96	LINGNER et al., "Telomerase and DNA End Replication: No Longer a Lagging Strand Problem?," <i>Science</i> , 1995, p. 1533, Vol. 269	
✓	C97	Linking telomerase and tumors; <i>Genesis Report- Dx</i> ; 1995; Vol. 4, No. 6; Publisher Genesis Group Associates, Abstract only.	
✓	C98	LOWY, I. et al. "Isolation of transforming DNA: Cloning the hamster apt gene," <i>Cell</i> , Dec. 1980, p. 817-823, Vol. 22.	
✓	C99	LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Motifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase", <i>Cell</i> , 23 Feb. 1990, pp. 529-530, Vol. 60.	

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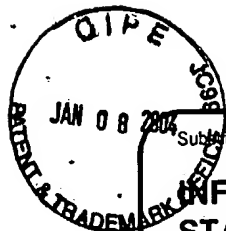
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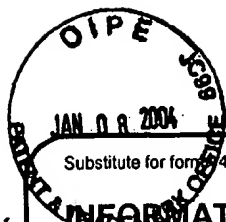
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/766,253		
		Filing Date	January 19, 2001		
		First Named Inventor	Thomas Cech		
		Art Unit	1634		
		Examiner Name	Carla J. Myers		
Sheet	9	of	12	Attorney Docket Number	015389-002921US

NON PATENT LITERATURE DOCUMENTS			
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✓	C100	LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Motifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase", <i>Cell</i> , 23 Feb. 1990, pp. 529-530, Vol. 60.	
✓	C101	LUSTIG, A. & PETES, T. "Identification of yeast mutants with altered telomere structure," <i>Proc. Natl. Acad. Sci.</i> , March 1986, pp. 1398-1402, Vol. 83	
✓	C102	LUSTIG, ARTHUR J., "The identification of telomerase subunits: catalysing telomere research", <i>Trends in Cell Biology</i> ; August 1997, pp. 299-302, Vol. 7.	
✓	C103	MADDOX, D.E. et al. "Elevated serum levels in human pregnancy of a molecule immunochemically similar to eosinophil granule major basic protein," <i>J. Exp. Med.</i> , Oct. 1983, pp. 1211-1226, Vol. 158	
✓	C104	MAKAROV, V. et al. "Nucleosomal Organization of Telomere-Specific Chromatin in Rat," <i>Cell</i> , 1993, p. 775-787, Vol. 73	
✓	C105	MALICKI, J. et al. "A human HOX4B regulatory element provides head-specific expression in <i>Drosophila</i> embryos", <i>Nature</i> , 23 July 1992, pp. 345-357, Vol. 358.	
✓	C106	McEACHERN, M. & BLACKBURN, E. "Runaway telomere elongation caused by telomerase RNA gene mutations," <i>Nature</i> , August 1995, pp. 403-409, Vol. 376.	
✓	C107	MELBY, P. et al. "Quantitative measurement of human cytokine gene expression by polymerase chain reaction," <i>J. Immunol. Meth.</i> , 1993, pp.235-244, Vol. 159	
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✓	C109	MEYERSON, M. et al., "hEST2, the Putative Human Telomerase Catalytic Subunit Gene, Is Up-Regulated in Tumor Cells and during Immortalization," <i>Cell</i> , August 1997, pp. 785-795, Vol. 90	
✓	C110	MURRAY, In McGraw Hill Yearbook of Science and Technology, 1992, pp. 191-196, McGraw Hill, New York	
✓	C111	NAKAMURA, T. et al., "Telomerase Catalytic Subunit Homologs from Fission Yeast and Human," <i>Science</i> , August 1997, pp. 955-959, Vol. 277	
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✓	C115	NIELSEN et al., "Peptide nucleic acids (PNAs): Potential antisense and anti-gene agents," <i>Anticancer Drug Des.</i> , 1993, pp. 53-63, Vol. 8.	

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Sheet 10 of 12

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Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

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CM	C118	OKA, Y. et al. "Inverted terminal repeat sequence in the macronuclear DNA of Stylonychia pustulata," Gene, 1980, pp. 301-306, Vol. 10	
✓	C117	OLOVNIKOV, A.M., "A Theory of Marginotomy: The incomplete copying of template margin in enzymic synthesis of polynucleotides and biological significance of the phenomenon," J. Theor. Biol., 1973, p. 181, Vol. 41.	
✓	C118	ORLANDI et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," Proc. Natl. Acad. Sci., May 1989, pp. 3833-3837, Vol. 86	
✓	C119	PASZKOWSKI, Jerzy et al., "Direct gene transfer to plants," The EMBO Journal, 1989, pp. 2717-2722, Vol. 3.	
✓	C120	POTRYKUS, I. et al. "Direct gene transfer to cells of a graminaceous monocot", Mol. Gen. Genet., 1985, pp. 183-188, Vol. 199.	
✓	C121	PRESCOTT, D. "The DNA of Ciliated Protozoa," Microbiol. Rev., June 1994, pp. 233-267, Vol. 58, No. 2.	
✓	C122	PRICE, C.M. "Fluorescence in Situ Hybridization" Blood Reviews, 1993, p. 127, Vol. 7	
✓	C123	RAYMOND, E., et al.; Agents that target telomerase and telomeres; Curr. Opin. Biotechnol.; 1996; 7:583-91	
✓	C124	RHODES, C. et al. "Transformation of maize by electroporation of embryos," Meth. Mol. Biol., 1995, pp. 121-131, Vol. 55.	
✓	C125	RHYU, M.S. "Telomeres, telomerase, and immortality"; J. Natl. Cancer Inst.; 21 June 1995; pp. 884-894, Vol. 87, No. 12.	
✓	C126	ROBERGE, J. et al., "A strategy for a convergent synthesis of N-linked glycopeptides on a solid support," Science, July 1995, pp. 202-204, Vol. 269	
✓	C127	ROMERO, D. and BLACKBURN, E. "A conserved secondary structure for telomerase RNA," Cell, Oct. 1991, pp. 343-353, Vol. 67	
✓	C128	SAMBROOK et al., Molecular Cloning, A Laboratory Manual, 1989, pp. 16.2-16.10, Cold Spring Harbor Press, Plainview NY	
✓	C129	SANDELL, L. et al., "Transcription of yeast telomere alleviates telomere position effect without affecting chromosome stability," Proc. Natl. Acad. Sci., 1994, pp. 12061-12065, Vol. 91	
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✓	C131	SCHARF, D. et al. "Heat stress promoters and transcription factors," Result Probl. Cell Differ. 1994, pp. 125-162, Vol. 20	

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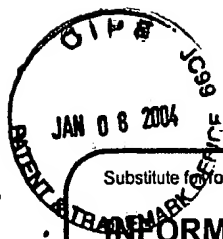
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CH	C132	SCHWARTZ, H. et al. "Telomere Reduction in Giant Cell Tumor of Bone and with Aging"; Cancer Genet Cytogenet; 1993; pp. 132-138, Vol. 71, Elsevier Science Publishing Co., Inc., New York, U.S.A.	
✓	C133	SHAMPAY, J. and BLACKBURN, E. "Generation of telomere-length heterogeneity in Saccharomyces cerevisiae," Proc. Natl. Acad. Sci., Jan. 1988, pp. 534-538, Vol. 85	
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✓	C135	SINGER, M. & GOTTSCHLING, D. "TLC1: Template RNA Component of Saccharomyces cerevisiae Telomerase," Science, Oct. 1994, pp. 404-409, Vol. 266	
✓	C136	SINGER, M. "Unusual Reverse Transcriptases", Journal of Biological Chemistry; 1995, pp. 24623-23626, Vol. 270, No. 42	
✓	C137	SMITH, J. & YEH, G. "Telomere Reduction in Endometrial Adenocarcinoma"; Am. J. Obstet. Gynecol.; Dec. 1992; pp. 1883-1887, Vol. 167, No. 6	
✓	C138	STARLING, J.A. et al., "Extensive telomere repeat arrays in mouse are hypervariable," Nucleic Acids Res., 1990, pp. 6881-6888, Vol. 18, No. 23	
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✓	C140	TAIT, J. et al. "Structure and Polymorphisms of the Human Annexin III (ANX3) Gene", Genomics, 1993, pp. 79-86, Vol. 18, No. 1	
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✓	C142	TRASK, B. "Fluorescence in situ hybridization: application in cytogenetics and gene mapping," (1991) Trends Genet., May 1991, pp. 149-154, Vol. 7, No. 5	
✓	C143	VERMA et al., "Human Chromosomes: A Manual of Basic Techniques," 1988, Pergamon Press, New York NY	
✓	C144	WATSON, J.D. "Origin of Concatemeric T7 DNA," Nature New Biol., Oct. 1972, pp. 197-201, Vol. 239	
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✓	C146	WELLINGER, R. et al., "Origin activation and formation of single-strand TG1-3 tails occur sequentially in late S phase on a Yeast linear plasmid," Mol. Cell. Biol., July 1993, pp. 4057-4065, Vol. 13, No. 7.	
✓	C147	WELLINGER, R. et al., "Saccharomyces Telomeres Acquire Single-Strand TG1-3 Tails Late in S Phase," Cell, 1993, pp. 51-60, Vol. 72	
✓	C148	Whitehead Institute/MIT Center for Genome Research, Genetic Map of the Mouse, Database Release 10, April 28, 1995	

Examiner Signature	<i>Chapman</i>	Date Considered	4-13-04
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CM	C149	WIGLER, M. et al., "Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells," Cell, 1997, pp. 223-232, Vol. 11	
✓	C150	WIGLER, M. et al., "Transformation of mammalian cells with an amplifiable dominant-acting gene," Proc. Natl. Acad. Sci., June 1980, pp. 3567-3570, Vol. 77, No. 6	
✓	C151	WINTER, G. & HARRIS, W. "Humanized Antibodies", Trends Pharmacol. Sci., May 1993, pp. 139- 143, Vol. 14.	
✓	C152	WINTER, G. and MILSTEIN, C. "Man-made antibodies," Nature, Jan. 1991, pp. 293-299, Vol. 349	
✓	C153	WIRTH, URS et al; "Immediate-Early RNA 2.9 and Early RNA 2.6 of Bovine Herpesvirus 1 Are 3' Coterminal and Encode of Putative Zinc Finger Transactivator Protein"; <i>Journal of Virology</i> ; May 1992; pp. 2763-2772, Vol. 66, No. 5.	
✓	C154	WRIGHT, J. et al., "Saccharomyces telomeres assume a non-nucleosomal chromatin structure," Genes Develop., 1992, pp. 197-210, Vol. 6	
✓	C155	YU et al., "In vivo alteration of telomere sequences and senescence caused by mutated <i>Tetrahymena</i> telomerase RNAs," Nature, March 1990, p. 126-132, Vol. 344	
✓	C156	ZAHLER and PRESCOTT, "Telomere terminal transferase activity in the hypotrichous ciliate <i>Oxytricha</i> <i>nova</i> and a model for replication of the ends of linear DNA molecules," <i>Nucleic Acids Res.</i> , 1988, p. 6953, Vol. 16	
✓	C157	ZAKIAN, Telomeres: Beginning to Understand the End," <i>Science</i> , 1995, p. 1601-1607, Vol. 270	
✓	C158	ZAUG, A. et al., "Catalysis of RNA Cleavage by a Ribozyme Derived from the Group I Intron of <i>Anabaena</i> Pre-tRNA ^{Leu} ," <i>Biochemistry</i> , 1994, pp. 14935-14947, Vol. 33	
✓	C159	ZAUG, A., et al., "Method for determining RNA 3' ends and application to human telomerase RNA", <i>Nucleic Acids Research</i> , 1996, pp. 532-533, Vol. 24, No. 3.	

Examiner Signature	<i>CM Myers</i>	Date Considered	4-13-04
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